SV3-072B

SV3-072B

Gold Star Audio

SERVICE MANUAL

for service technician

Gold Star Co., Ltd.

STEREO CASSETTE DECK

GSK-3030

Component Series

SPECIFICATIONS

This specifications may be changed for improvement of performance without notice.

Track system	4 track 2 channel
Recording system	AC Bias (85 KHz)
Erasure system	AC Erasure
Erasure ratio	More than 65 dB
Tape speed	4.75 cm/sec
Wow & Flutter	0.1% RMS
F.F. & REW time	120 sec
Frequency response (REC/PB)	
Normal	20-13000 Hz
CrO_2	20-14000 Hz
Metal	20-15000 Hz
S/N ratio (REC/PB)	50 dB
Distortion (REC/PB)	3%
Cross talk	65 dB

Channel separation	35 dB
Input sensitivity	Line in 60mV Mic 0.3mV
Input impedance	Line in 47 kΩ Mic 600Ω
Output level	Line out 775 mV
Output impedance	Line out 1 kΩ Headphone 8 Ω
Semiconductors	1IC, 21TR, 18Diode 5 Rectifier
Power consumption	5W
Weight	5.2Kg
Dimensions	420(W)x120(H)x260(D) mm

Printed in Korea Jan, 1982

To service technicion

This service manual contains detailed service information for stereo cassette deck Model GSK-3030.
Illustration of the model appears on front cover.
Please give attention to next caution.
The followings are the safety servicing guidelines for all audio amplifiers and radio receivers.
Service work should be performed only after you are familiar with all of the following safety guide.
To do otherwise increases the risk of potential hazards and injury to the user.

Safety guide

1. Be sure that all components are positioned in such a way to avoid possibility of adjacent components shorts.
   This is especially important on those chassis which are transported to and from the repair shop.
2. Always replace all protective devices such as insulators and barriers after working on a receiver.
3. Check for frayed insulation on wires including the AC cord. Also check across the-line components for damage and replace if necessary.
4. All fuses and certain resistors and capacitors which are of the flameproof type must be replaced with exact same types to prevent potential fire hazard.
5. After re-assembly of the set always perform an AC-leakage test on the exposed metallic parts of the cabinet such as the knobs, switch, etc. to be sure the set is safe to operate without danger of electrical shock.

To order repair parts

Parts orders must contain:

1. Model Number-found on front cover in this service manual
2. Part Number, Description and Quantity.

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DISASSEMBLY INSTRUCTIONS

1. To remove top cabinet

Remove 4 screws Ⓐ as shown in Fig. 1.

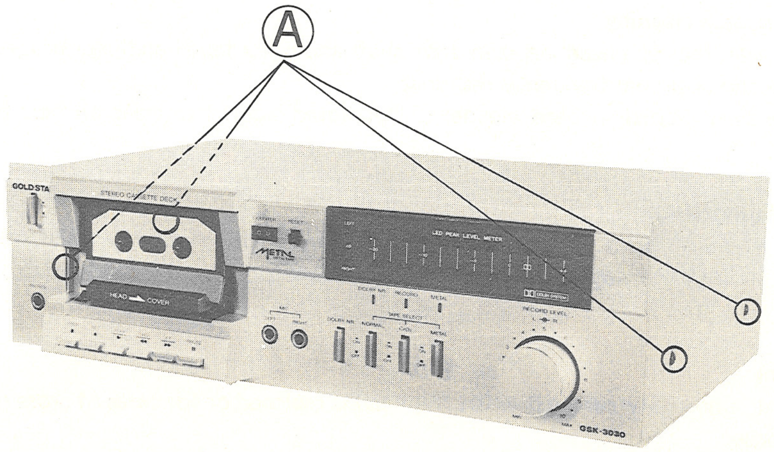

A
GOLDSTA
STEREO CASSETTE DECK
HEAD COVER
METAL
LED PEAK LEVEL METER
GSK-3030

Fig. 1

2. To remove button cover

When checking any circuit or replacing any parts on the PWB, remove 6 screws Ⓑ as shown in Fig. 2.

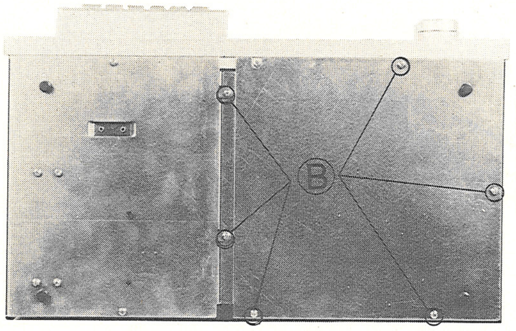


Fig. 2

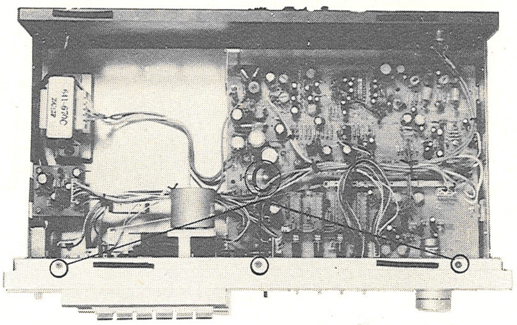


Fig. 3

3. To remove Front panel

When replacing parts on the front panel-switches, jacks and volume-remove 3 screws Ⓒ as shown in Fig. 3.

ALIGNMENT INSTRUCTIONS

This cassette deck has been aligned at the factory and normally will not require further adjustment. As a result, it is not recommended that any attempt is made to modificate any circuit.
If any parts are replaced or if anyone tampers with the adjustment, realignment may be necessary.

Tape head and capstan cleaning

1. Periodically clean the tape head, capstan drive shaft and other tape handling surfaces to insure proper tape handling and optimum frequency response.
2. Use a cotton swab lipped in head cleaner or denatured alcohol to clean all tape handling surfaces. Wife dry.

Tape head demagnetization

When servicing tape unit, do not use magnetized screwdrivers or wrenches near the tape head since they can magnetize the head. A magnetized head will result in loss of high frequency response and increased noise.

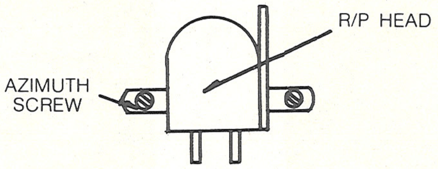
Head adjustment

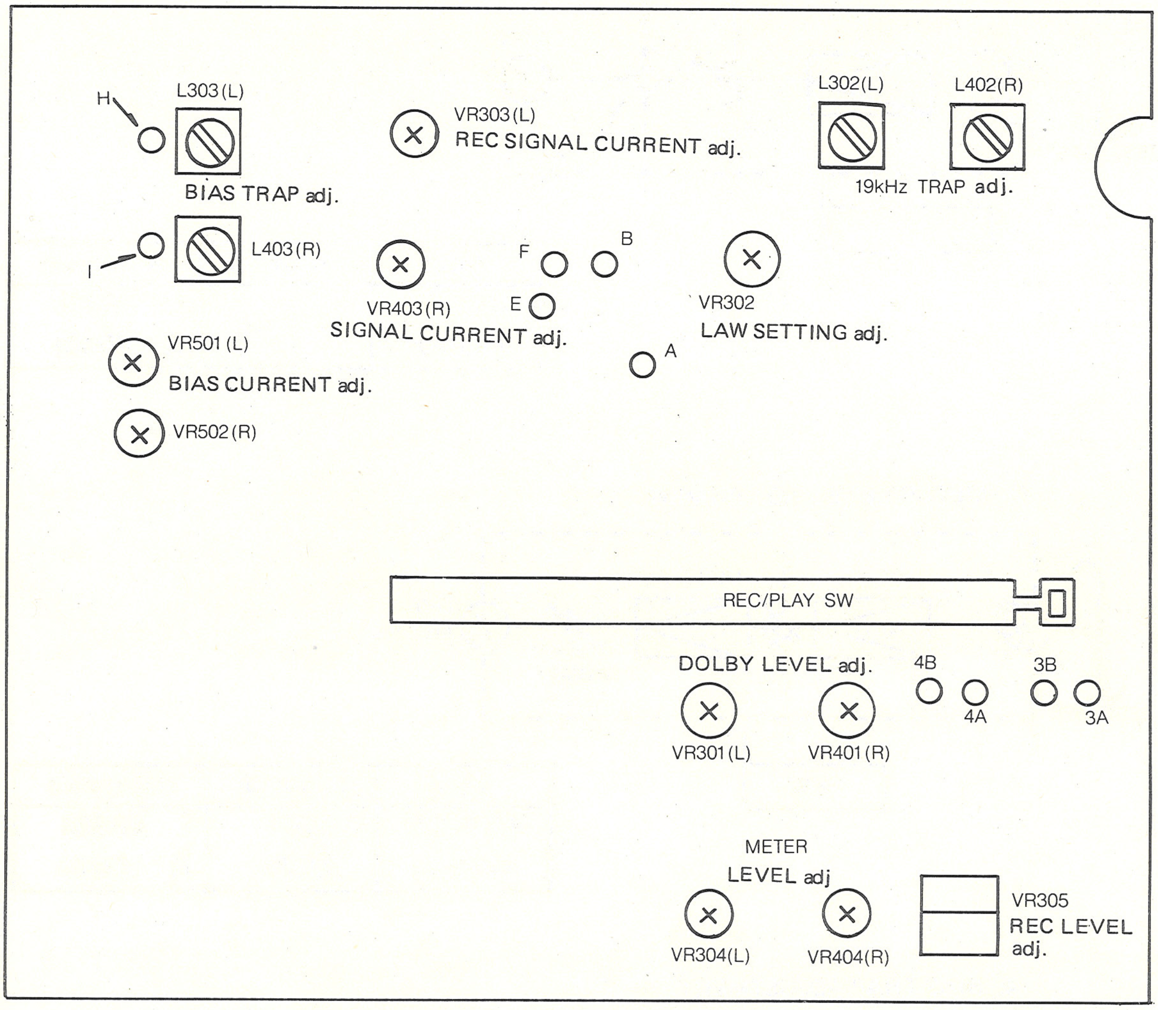
Head adjustment is normally required when the head is replaced or for cases of cross-talk and poor high frequency response.

Test equipment required

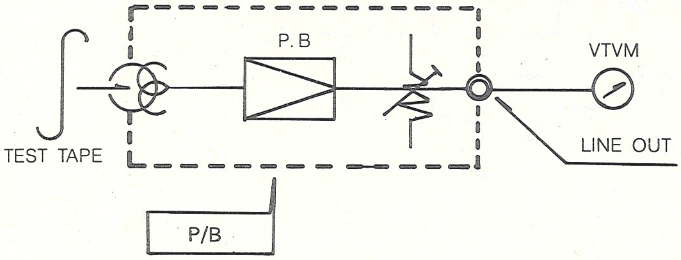
1. Audio frequency osc
2. VTVM
3. Test tape
    a) MTT-150 (400 Hz)
    b) MTT-114 (10 KHz)
    c) Blank tapes (nor, CrO_2, Metal)

Adjustment and test points



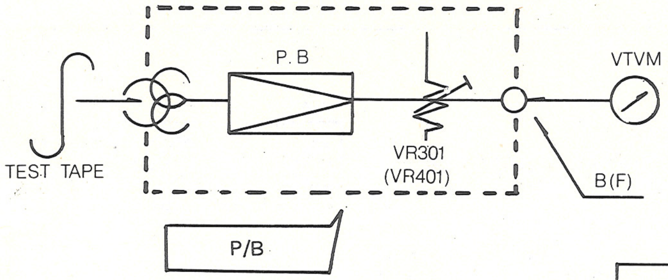

H
L303(L)
VR303(L)
REC SIGNAL CURRENT adj.
L302(L)
L402(R)
BIAS TRAP adj.
19kHz TRAP adj.
I
L403(R)
F
B
VR403(R)
E
VR302
SIGNAL CURRENT adj.
LAW SETTING adj.
VR501 (L)
A
BIAS CURRENT adj.
VR502(R)
REC/PLAY SW
DOLBY LEVEL adj.
4B
3B
4A
3A
VR301(L)
VR401(R)
METER
LEVEL adj
VR305
REC LEVEL
adj.
VR304(L)
VR404(R)

1. AZIMUTH ADJUSTMENT


P. B
VTVM
TEST TAPE
LINE OUT
P/B

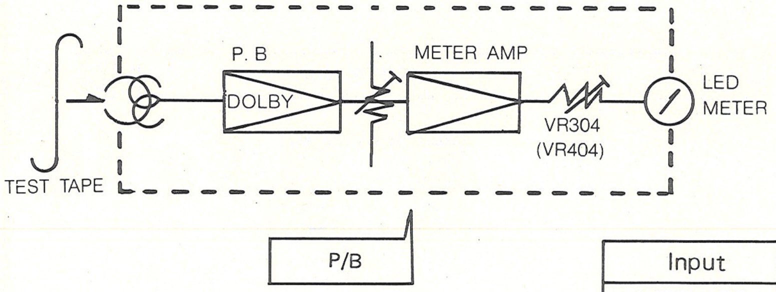
Input	Adjust for	Adjustment
MTT-114 (10kHz)	Maximum	Azimuth adjustment screw

2. DOLBY LEVEL ADJUSTMENT


P. B
VTVM
TEST TAPE
VR301
(VR401)
B(F)
P/B

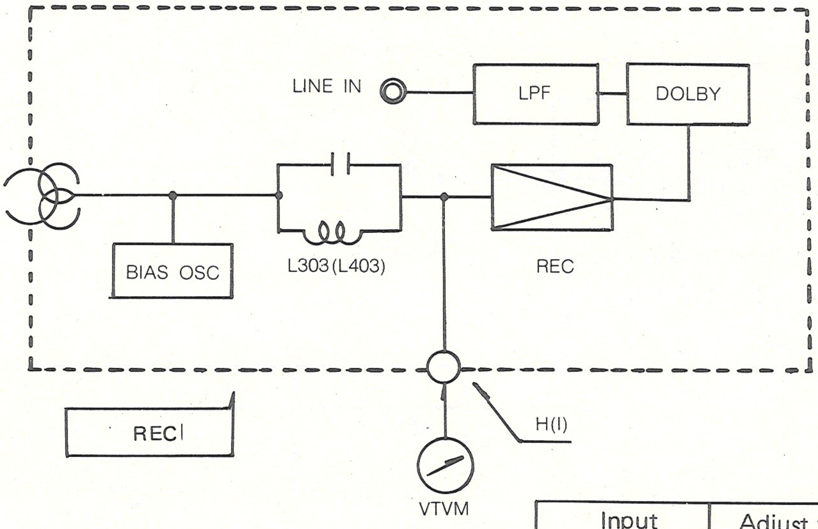
Input	Adjust for	Adjustment
MTT-150 (400Hz)	775mV	L : VR301 R : VR401

3. METER LEVEL ADJUSTMENT


P. B
DOLBY
METER AMP
LED
METER
VR304
(VR404)
TEST TAPE
P/B

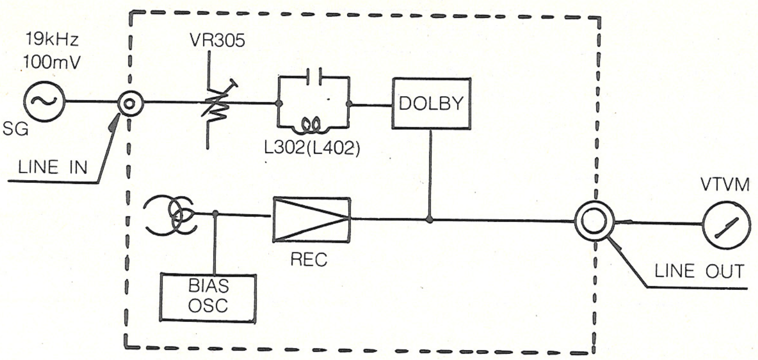
Input	Adjust for	Adjustment
MTT-150 (400Hz)	DOLBY MARK	L : VR304 R : VR404

4. BIAS TRAP ADJUSTMENT


LINE IN
LPF
DOLBY
BIAS OSC
L303(L403)
REC
REC
H(I)
VTVM

Input	Adjust for	Adjustment
No signal	Minimum	L : L303 R : L403

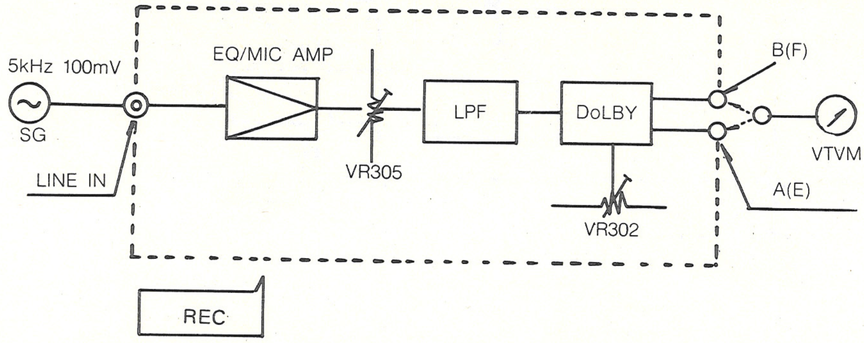
5. 19kHz TRAP ADJUSTMENT


19kHz
100mV
SG
LINE IN
VR305
L302(L402)
DOLBY
BIAS
OSC
REC
VTVM
LINE OUT

REC

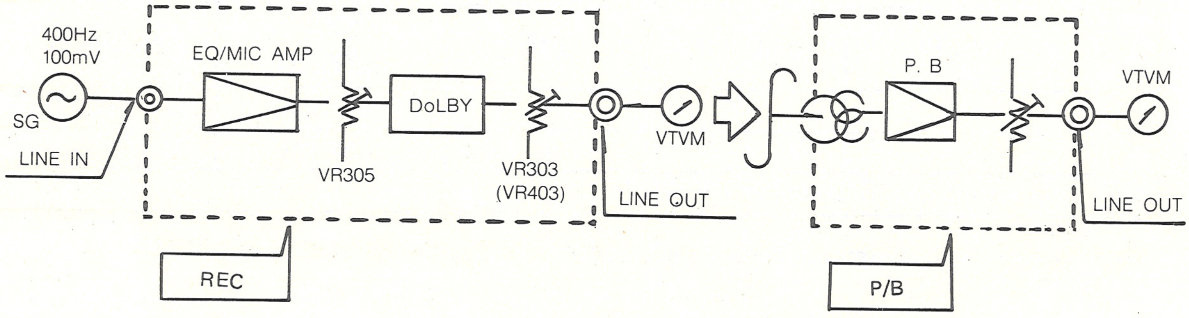
Input	Adjust for	Adjustment
19kHz 100mV	Minimum	L : L302 R : L402

6. LAW SETTING ADJUSTMENT


5kHz 100mV
SG
LINE IN
EQ/MIC AMP
VR305
LPF
DoLBY
VR302
B(F)
A(E)
VTVM
REC

No.	Input	Adjust for	Adjustment	DOLBY SW	Remarks
1	5kHz 100mV	−30.4 dB m	VR305	OFF	at test point B(F)
2	〃	higher about 8 dB than -30.4 dBm	VR302	ON	at test point A(E)

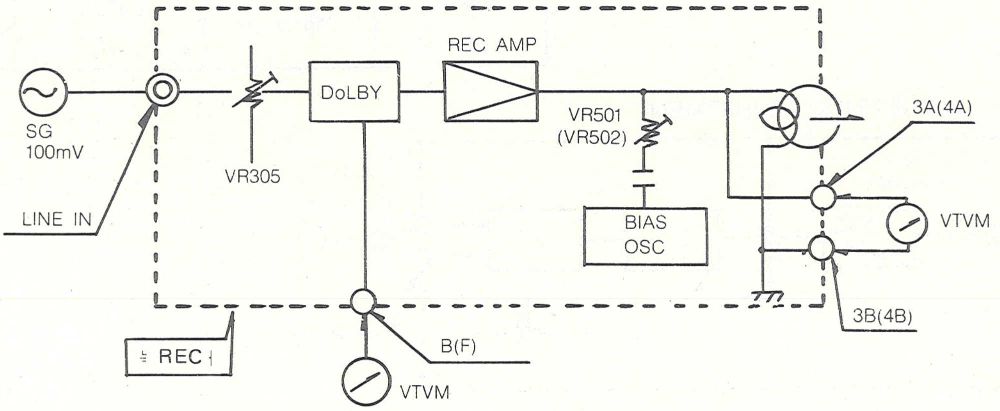
7. RECORDING SIGNAL CURRENT ADJUSTMENT


400Hz
100mV
SG
LINE IN
EQ/MIC AMP
VR305
DoLBY
VR303
(VR403)
VTVM
LINE OUT
REC
P. B
VTVM
LINE OUT
P/B

No.	REC level : at T.P. B(F)			REC/PB level : at LINE OUT		BIAS EQ switch
	Frequ. (Hz)	Adjust for	Adjustment	Adjust for	Adjustment	
1	400	775mV	VR305	775mV±0.5dB	L : VR303 R : VR403	NORMAL
2	400	〃	〃	〃	Confirm	CrO_2
3	400	〃	〃	〃	Confirm	METAL
4	Repeat the item 1) to content item 2), 3)					

Notes) REC/PB level adjustment should be performed only by VR303 and VR403.

8. BIAS CURRENT ADJUSTMENT



① Rough adjustment

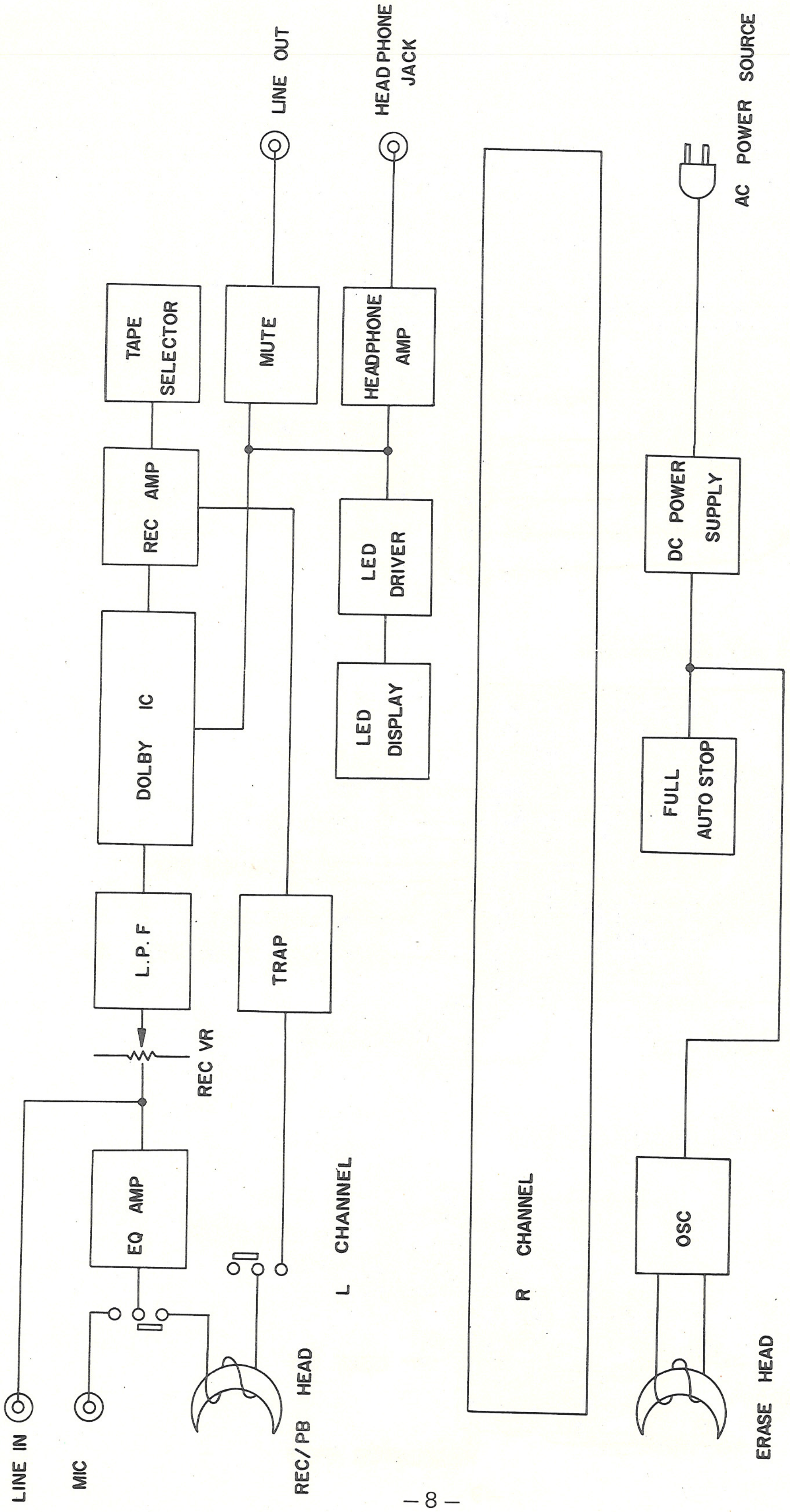
Input	Adjust for	Adjustment	TAPE SEL.	Remarks
No signal	AC 38V	L : VR501 R : VR502	METAL	Btween T-P 3A(4A)) and 3B(4B)

② Detail adjustment (DOLBY ON)

No.	REC level : at T.P. B(F)	Freq.	Output difference	Adjustment	Using Tape
1	−25dBm	1/10kHz	3 dB	VR501 (VR502)	NORMAL
2	〃	〃	〃	Confirm	CrO_2
3	〃	〃	〃	Confirm	METAL
4	Repeat the item 1) to content item 2), 3)				

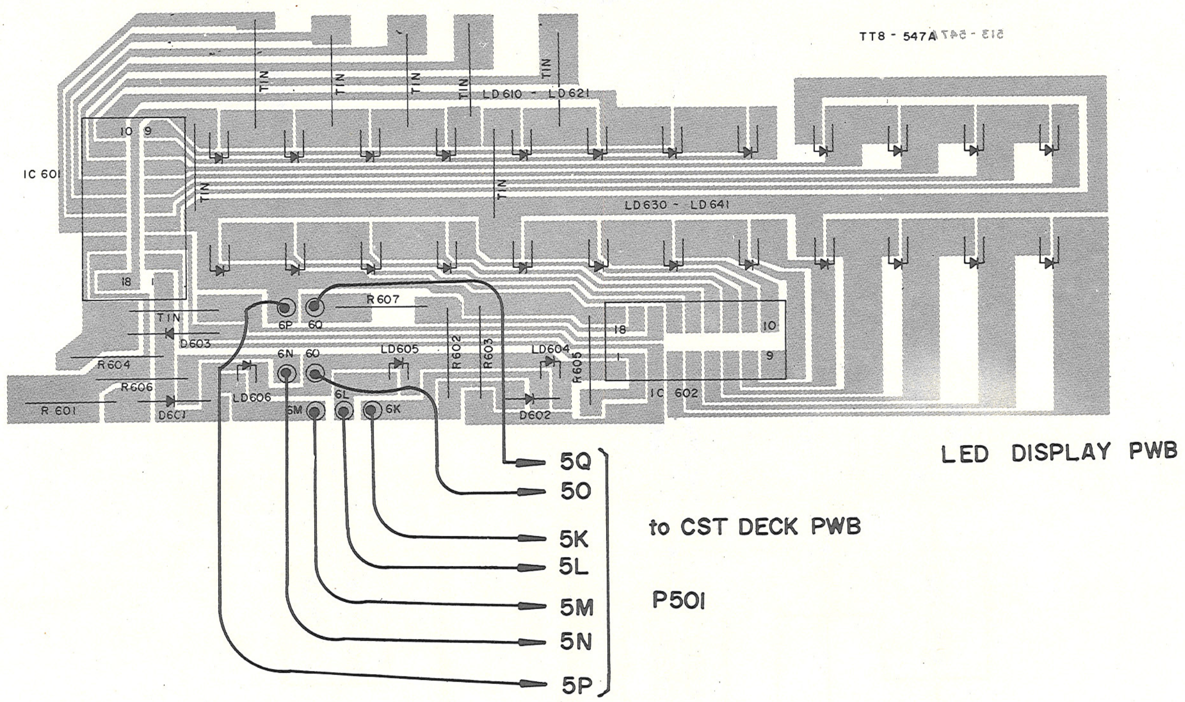
Note) Playback level difference between 1KHz and 10KHz should be within ±3dB on VTVM.

BLOCK DIAGRAM

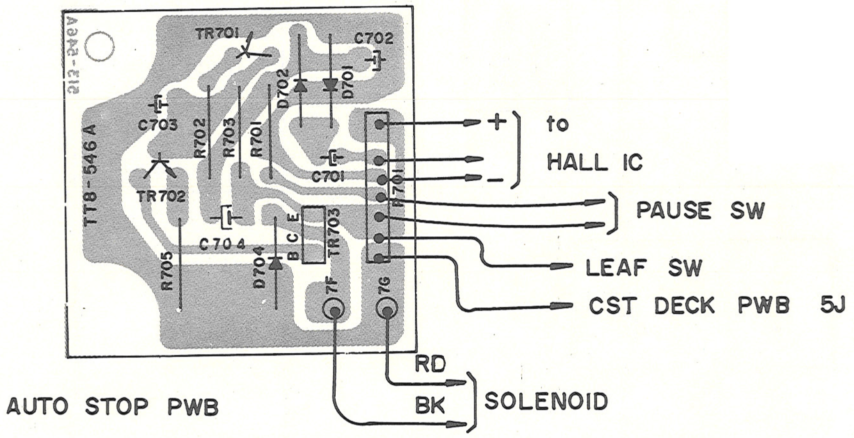

LINE IN
MIC
REC/PB HEAD
EQ AMP
REC VR
L.P.F
DOLBY IC
REC AMP
TAPE SELECTOR
MUTE
LINE OUT
HEADPHONE AMP
HEAD PHONE JACK
LED DRIVER
LED DISPLAY
TRAP
L CHANNEL
R CHANNEL
AC POWER SOURCE
DC POWER SUPPLY
FULL AUTO STOP
OSC
ERASE HEAD

ELECTRICAL PARTS LOCATION AND WIRING

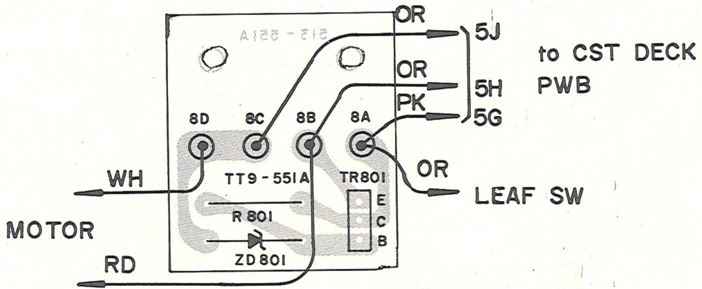
LED DISPLAY PWB AY (511-547A)


TT8 - 547A
TIN
LD610 - LD621
LD630 - LD641
IC 601
10 9
18 1
R607
6P
6Q
6N
6O
6M
6L
6K
LD605
LD604
LD606
R602
R603
R605
R604
R606
R 601
D603
D601
D602
18
10
9
IC 602
5Q
5O
5K
5L
5M
5N
5P
to CST DECK PWB
P501
LED DISPLAY PWB

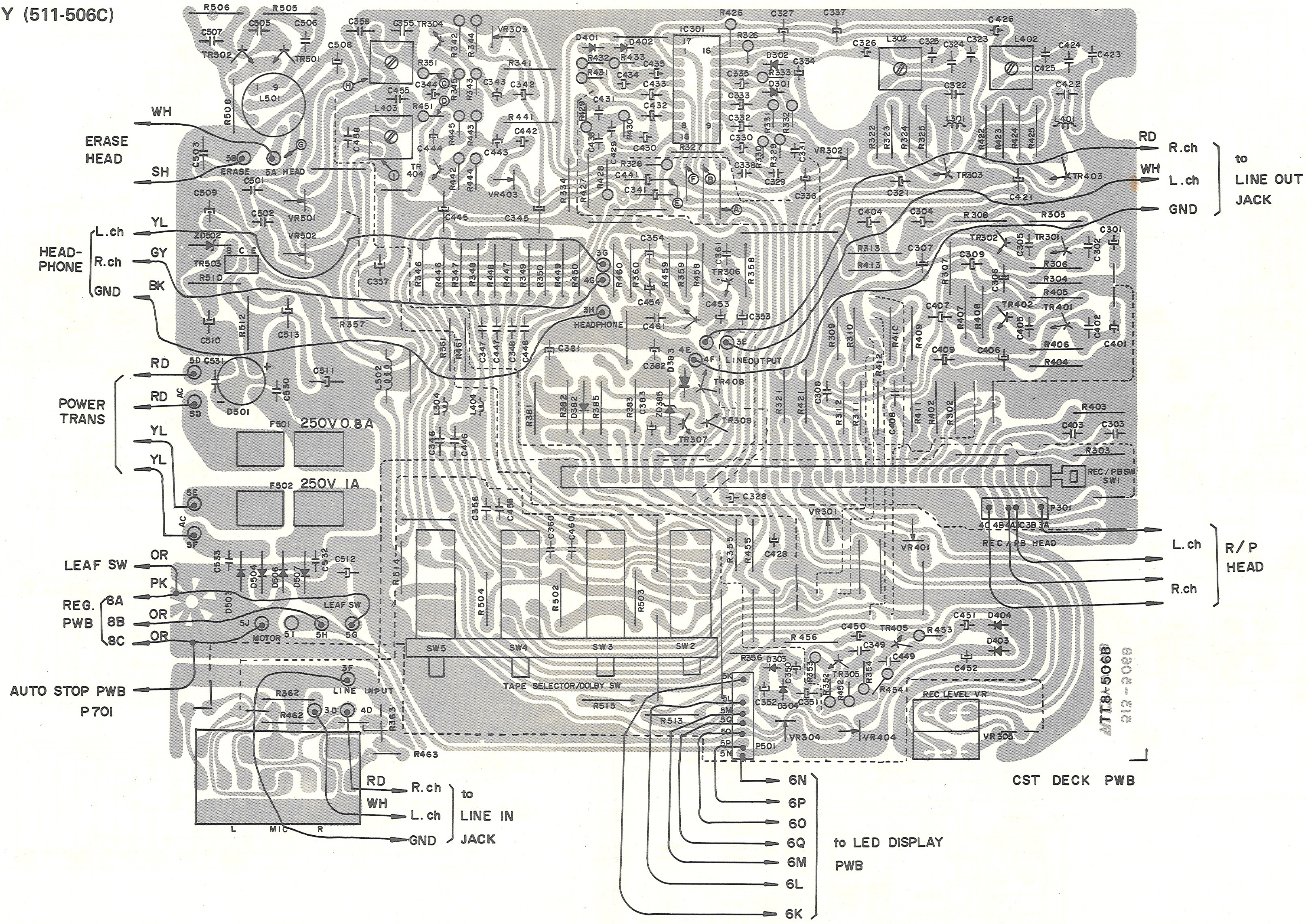
AUTO STOP PWB AY (511-546A)


TT8-546 A
TR701
C702
D702
D701
C703
R702
R703
R701
C701
TR702
C704
B C E
TR703
R705
D704
7F
7G
P701
+
-
-
to
HALL IC
PAUSE SW
LEAF SW
CST DECK PWB 5J
RD
BK
SOLENOID
AUTO STOP PWB

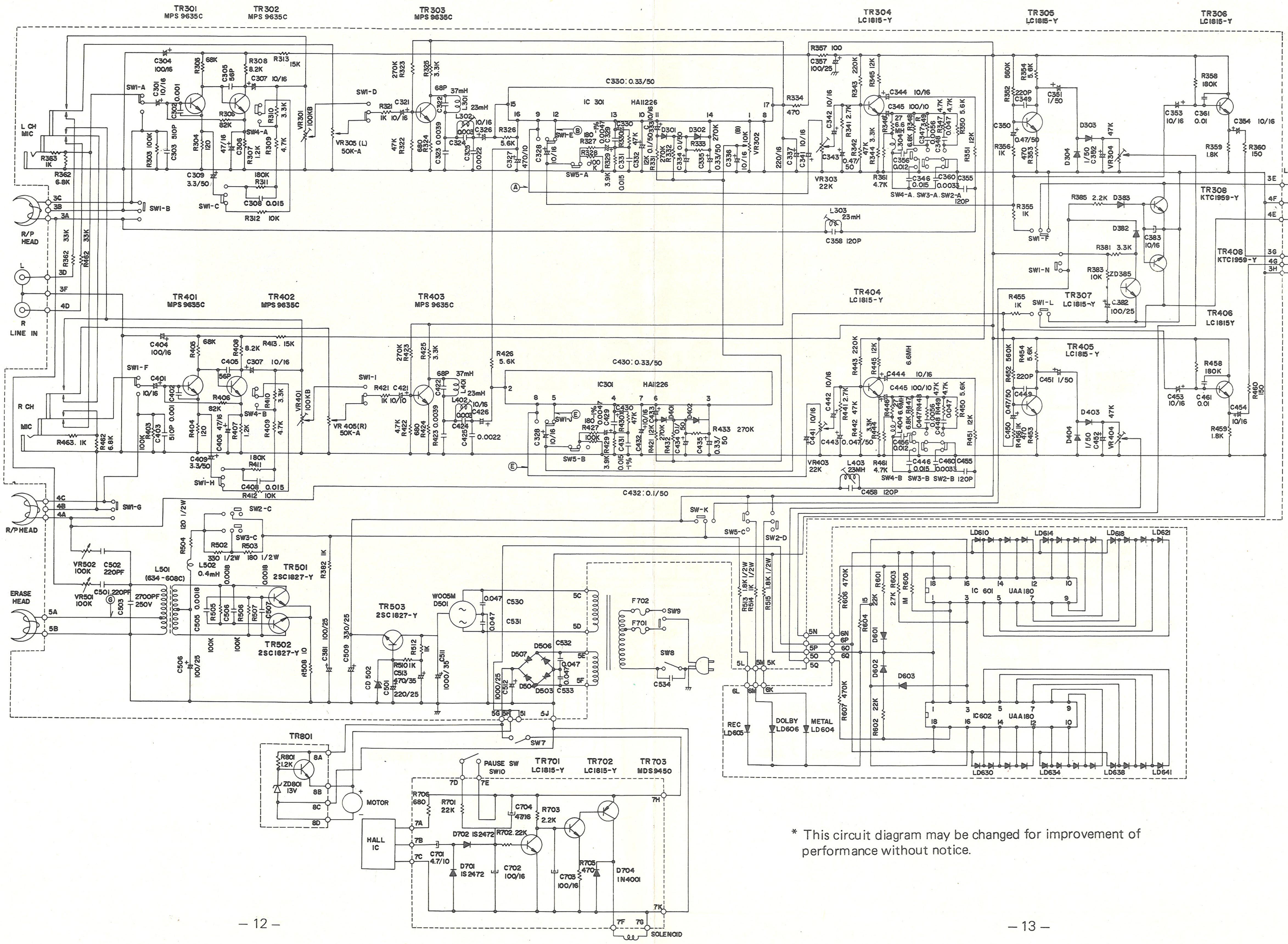
DC REGULATOR PWB AY (511-551A)


OR
5J
OR
5H
PK
5G
to CST DECK PWB
8D
8C
8B
8A
TT9-551A
TR801
E
C
B
R 801
ZD801
OR
LEAF SW
WH
MOTOR
RD
REGULATOR PWB

MAIN PWB AY (511-506C)


ERASE HEAD
WH
SH
HEAD-PHONE
L.ch
R.ch
GND
YL
GY
BK
POWER TRANS
RD
YL
LEAF SW
OR
PK
REG. PWB
8A
8B
8C
AUTO STOP PWB
P701
250V 0.8A
250V 1A
TAPE SELECTOR/DOLBY SW
SW5
SW4
SW3
SW2
HEADPHONE
LINE OUTPUT
LINE INPUT
MOTOR
LEAF SW
REC/PB SW1
REC/PB HEAD
REC LEVEL VR
RD
R.ch
WH
L.ch
GND
to LINE OUT JACK
L.ch
R.ch
R/P HEAD
CST DECK PWB
RD
R.ch
WH
L.ch
GND
to LINE IN JACK
6N
6P
6O
6Q
6M
6L
6K
to LED DISPLAY PWB

CIRCUIT DIAGRAM


TR301 MPS 9635C
TR302 MPS 9635C
TR303 MPS 9635C
TR304 LC1815-Y
TR305 LC1815-Y
TR306 LC1815-Y
TR401 MPS 9635C
TR402 MPS 9635C
TR403 MPS 9635C
TR404 LC1815-Y
TR405 LC1815-Y
TR406 LC1815Y
TR307 LC1815-Y
TR308 KTC1959-Y
TR408 KTC1959-Y
IC 301 HA11226
IC301 HA11226
C330: 0.33/50
C430: 0.33/50
C432: 0.1/50
L CH MIC
R CH MIC
R/P HEAD
L
R
LINE IN
LINE OUT
H/P
ERASE HEAD
SW1-A
SW1-B
SW1-C
SW1-D
SW1-F
SW1-G
SW1-H
SW1-I
SW1-L
SW1-N
SW2-C
SW2-D
SW3-C
SW5-A
SW5-B
SW5-C
SW-K
SW4-A. SW3-A. SW2-A
SW4-B SW3-B SW2-B
VR301 100KB
VR401 100KB
VR305 (L) 50K-A
VR 405(R) 50K-A
VR303 22K
VR403 22K
VR302
VR304
VR404
L303 23mH
C358 120P
C458 120P
L501 (634-608C)
L502 0.4mH
VR502 100K
C502 220PF
VR501 100K
C501 220PF
C503 2700PF 250V
TR501 2SC1827-Y
TR502 2SC1827-Y
TR503 2SC1827-Y
W005M D501
CD 502
F702
F701
SW9
SW8
C534
SW7
TR801
R801 1.2K
ZD801 13V
MOTOR
HALL IC
PAUSE SW SW10
TR701 LC1815-Y
TR702 LC1815-Y
TR703 MDS9450
D702 1S2472
D701 1S2472
D704 1N4001
SOLENOID
LD610
LD614
LD618
LD621
LD630
LD634
LD638
LD641
IC 601 UAA180
IC602 UAA180
REC LD605
DOLBY LD606
METAL LD604
D601
D602
D603

* This circuit diagram may be changed for improvement of performance without notice.

ELECTRICAL PARTS LIST

MAIN PWB AY (511-506C)

NO.	SYMBOL NO.	PART NO.	DESCRIPTION
1	IC301	668-032A	IC HA11226 (DOLBY)
2	TR501, 502, 503	665-882C	TRANSISTOR SANKEN 2SC1827-Y
3	TR301, 401, 302, 402, 303, 403	662-606C	TRANSISTOR MOTOROLA MPS9635C
4	TR3-404, 3-405, 3-406, 307	665-884A	TRANSISTOR MOTOROLA LC1815-Y
5	TR308, 408	665-814B	TRANSISTOR KBC KTC1959-Y
6	ZD502	654-607E	DIODE ZENER, ZPD-24 ITT
7	D501	652-013A	DIODE RECT WOO5M G, I
8	D503, 504, 506, 507	652-005A	DIODE RECT 1N4001 G, I
9	D301, 401	651-605A	DIODE DETECT IK34 UNIZON
10	D302, 402	651-016A	DIODE SWITCH IS2076 HITACHI
11	D303, 403, 304, 404	651-001D	DIODE DETECT IS188FM-1 COS-ELE
12	SW2, 3, 4, 5	554-606K	SW, PUSH SUF44S 4Cx4 12.5MTG
13	SW1	552-608A	SW, SLIDE CL114K SHORTING
14		572-153A	JACK (HLJ0286-01-030)
15		564-022A	PLUG AY, 12 PIN.
16	VR304, 404	613-002G	VR, SEMI-FIXED SR19R-47KB 10D
17	L502	639-602B	COIL PADDING
18	L501	634-608C	COIL, BIAS 1.7MH
19	L302, 402, 303, 403	638-601C	COIL TRAP
20	L301, 401	636-604A	COIL CHOKE
21	L304, 404	639-602F	COIL PEAKING 6.6MH
22	VR302	613-002F	VR, SEMI-FIXED SR19R-10KB 100
23	VR 303, 403	613-002D	VR, SEMI-FIXED SR19R-22KB 100
24	VR301, 401, 501, 502	613-002J	VR, SEMI-FIXED SR19R-100KB
25	R353, 453	RD471J02	R, CARBON-FILM 470-J1/4WR
26	R344, 444	RD332J02	R, CARBON FILM 3.3K-J1/4WR
27	R363, 463	RD102J02	R, CARBON FILM 1K-J1/4WR
28	R350, 450	RD562J09	R, CARBON FILM 5.6K-J1/4WM
29	R504	RD121J03	R, CARBON FILM 120-J1/2WP
30	R503	RD181J03	R, CARBON FILM 180-J1/2WP
31	R346, 446	RD270J09	R, CARBON FILM 27-J1/4WM
32	R304, 404	RD121J09	R, CARBON FILM 120-J1/4WM
33	R327, 427	RD181J09	R, CARBON FILM 180-J1/4WM
34	R334	RD471J09	R, CARBON FILM 470-J1/4WM
35	R324, 424	RD681J09	R, CARBON FILM 680-J1/4WM
36	R321, 421, 382, 510, 512	RD102J09	R, CARBON FILM 1K-J1/4WM
37	R307, 407	RD122J09	R, CARBON FILM 1.2K-J1/4WM
38	R341, 441	RD272J09	R, CARBON FILM 2.7K-J1/4WM
39	R310, 410, 325, 425	RD332J09	R, CARBON FILM 3.3K-J1/4WM
40	R329, 429	RD392J02	R, CARBON FILM 3.9K-J1/4WM
41	R309, 409	RD472J09	R, CARBON FILM 4.7K-J1/4WM
42	R326, 426, 354, 454	RD562J02	R, CARBON FILM 5.6K-J1/4WR
43	R302, 402, 347, 447	RD682J09	R, CARBON FILM 6.8K-J1/4WM
44	R308, 408	RD822J09	R, CARBON FILM 8.2K-J1/4WM
45	R312, 412	RD103J09	R, CARBON FILM 10K-J1/4WM
46	R331, 431, 345, 445, 351, 451	RD123J02	R, CARBON FILM 12K-J1/4WR
47	R313, 413	RD153J09	R, CARBON FILM 15K-J1/4WM
48	R330, 430, 342, 442	RD473J09	R, CARBON FILM 47K-J1/4WR
49	R305, 405	RD683J09	R, CARBON FILM 68K-J1/4WM
50	R306, 406	RD823J09	R, CARBON FILM 82K-J1/4WM
51	R352, 452	RD564J02	R, CARBON FILM 560K-J1/4WR
52	R303, 403, 505, 506	RD104J09	R, CARBON FILM 100K-J1/4WM
53	R311, 411, 358, 458	RD184J09	R, CARBON FILM 180K-J1/4WM
54	R332, 432, 333, 433	RD274J02	R, CARBON FILM 270K-J1/4WR
55	R328, 428	RD104J02	R, CARBON FILM 100K-J1/4WR
56	R355, 455	RD102J09	R, CARBON FILM 1K-J1/4WM
57	R356, 456	RD102J09	R, CARBON FILM 1K-J1/4WM
58	R357	RD101J09	R, CARBON FILM 100-J1/4WM
59	R359, 459	RD182J09	R, CARBON FILM 1.8K-J1/4WM
60	R360, 460	RD151J09	R, CARBON FILM 150-J1/4WM
61	R381	RD332J09	R, CARBON FILM 3.3K-J1/4WM
62	R361, 461	RD472J09	R, CARBON FILM 4.7K-J1/4WM

NO.	SYMBOL NO.	PART NO.	DESCRIPTION
63	R383	RD103J09	R, CARBON FILM 10K-J1/4WM
64	R502	RD331J03	R, CARBON FILM 330-J1/2WP
65	R508	RD100J03	R, CARBON FILM 10-J1/2WP
66	R513, 515	RD182J03	R, CARBON FILM 1.8K-J1/2WR
67	R514	RD102J03	R, CARBON FILM
68	R322, 422	RD473J09	R, CARBON FILM 47K-J1/4WM
69	R323, 423	RD274J09	R, CARBON FILM 270K-J1/4WM
70	R305, 405	CC560K01	C, CERAMIC CC 56PF-K SL 50V
71	C349, 449	CC221K01	C, CERAMIC CC 220PF-K
72	C302, 402	CK102Z02	C, CERAMIC CK 1000PF-Z 50V
73	C505, 506, 507	CQ182J01	C, POLYESTER 0.0018MF-J 50V
74	C325, 425	CQ222J01	C, POLYESTER 0.0022MF-J 50V
75	C323, 423	CQ392J01	C, POLYESTER 0.0039MF-J 50V
76	C329, 429	CL472F01	C, POLYPROPYLENE 0.0047MF-F 50V
77	C347, 447	CQ562J01	C, POLYESTER 0.0056MF-J
78	C308, 408, 346, 446	CQ153J01	C, POLYESTER 0.015MF-J 50V
79	C303, 403	CY511J01	C, POLYSTYROL 510PF-JR
80	C324, 424	CY302J01	C, POLYSTYROL 3000PF-JR
81	C503	CY272J05	C, POLYSTYROL 2700PF-JR 250V
82	C306, 406	CE476B01	C, ELECTROLYTIC 47MF 10V
83	C307, 407, 321, 421, 326, 426	CE106C01	C, ELECTROLYTIC 10MF-16V
84	C328, 428, 333, 433, 336	CE106C01	C, ELECTROLYTIC 10MF-16V
85	C341, 441	CE106C01	C, ELECTROLYTIC 10MF-16V
86	C512	CE108D01	C, ELECTROLYTIC 1000MF 25V
87	C327	CE477C01	C, ELECTROLYTIC 470MF 16V
88	C357, 508	CE107D01	C, ELECTROLYTIC 100MF 25V
89	C304, 404	CE107C01	C, ELECTROLYTIC 100MF 16V
90	C337	CE227C01	C, ELECTROLYTIC 220MF 16V
91	C510	CE227E01	C, ELECTROLYTIC 220MF 35V
92	C511	CE108E01	C, ELECTROLYTIC 1000MF 35V
93	C330, 430, 335, 435	CE334F01	C, ELECTROLYTIC 0.33MF 50V
94	C343, 443, 350, 450	CE474F01	C, ELECTROLYTIC 0.47MF 50V
95	C332, 432, 334, 434	CE104F01	C, ELECTROLYTIC 0.1MF 50V
96	C301, 401, 383	CE106C01	C, ELECTROLYTIC 10MF-16V
97	C342,442	CE106C01	C, ELECTROLYTIC 10MF-16V
98	C353, 453	CE106C01	C, ELECTROLYTIC 10MF-16V
99	C361, 461	CK102Z02	C, CERAMIC CK 1000PF-Z 50V
100	C309, 409	CE335F01	C, ELECTROLYTIC 3.3MF-50V
101	C322, 422	CC680K01	C, CERAMIC CC 68PF-K SL 50V
102	C351, 451, 352, 452	CE105F01	C, ELECTROLYTIC IMF-50V
103	C331, 431, 338, 438	CL153F01	C, POLYPROPYLENE 0.015MF-F 50V
104	C344, 444	CE106C01	C, ELECTROLYTIC 10MF-16V
105	C345, 445	CE107801	C, ELECTROLYTIC 100MF-10V
106	C354, 454	CE106C01	C, ELECTROLYTIC 10MF-16V
107	C355, 455, 358, 458	CY181J01	C, POLYSTYROL 180PF-JR
108	C360, 460	CQ332J01	C, POLYESTER 0.0033MF-J 50V
109	C381, 382	CE107D01	C, ELECTROLYTIC 100MF 25V
110	C513	CE477E01	C, ELECTROLYTIC 470MF 35V
111	C501, 502	CY221J01	C, POLYSTYROL 220P
112	C530, 531, 532, 533	CK473Z02	C, CERAMIC CK 0.047MF-Z 50V
113	C509	CE337D01	C, ELECTROLYTIC 330MF 25V
114	D382, 383	652-605B	DIODE SWITCH IS2472
115	ZD385	654-607D	DIODE, ZENER, ZPD-18, ITT
116	R385	RD222J09	R, CARBON-FILM 2.2K-J1/4WM
117	C534	CK103P03	C, CERAMIC CK 0.01MF-P 500V
118	R362, 462	RD333J09	R, CARBON-FILM 33K-J1/4WM
119	R343, 443	RD224J02	R, CARBON FILM 220K-J 1/4WR
120	R348, 448	RD472J09	R, CARBON FILM 4.7K-J1/4WM
121	R349, 449	RD472J09	R, CARBON FILM 4.7K-J1/4WM
122	C356, 456	CQ123J01	C, POLYESTER 0.012MF-J 50V
123	C348, 448	CQ473J01	C, POLYESTER 0.047MF-J 50V
124		611-634A	VR, R KM20R-50KAX2
125	F502	585-109B	FUSE, 5x20 250V 1.6A
126	F501	585-108B	FUSE, 5x20 250V 800mA

LED DISPLAY PWB AY (511-547A)

NO.	SYMBOL NO.	PART NO.	DESCRIPTION	NO.	SYMBOL NO.	PART NO.	DESCRIPTION
1	IC601, 602	668-056A	IC UAA180 (LED DISPLAY DRIVE)	6	R601, 602	RD223J09	R, CARBON FILM 22K-J1/4WM
2	D601, 602, 603	652-605B	DIODE SWITCH IS2472	7	R605	RD105J09	R, CARBON FILM 1M-J1/4WM
3	LD610-618 LD630-638	653-402B	LED SENIOR SE-6611-H GN	8	R 606, 607	RD474J09	R, CARBON FILM 470K-J1/4WM
				9	R604	RD150J09	R, CARBON FILM 15-J1/4WM
4	LD619-621 LD639-641	653-402A	LED SENIOR SE-6611-H RD	10	LD606 (DOLBY)	653-606B	LED SIEMENS LD57A GN 5 M/N
5	R603	RD272J09	R, CARBON FILM 2.7K-J1/4WM	11	LD604, 605 (METAL/REC)	653-606A	LED SIEMENS LD41A, RD DIFFUSE

AUTO STOP PWB AY (511-546A)

NO.	SYMBOL NO.	PART NO.	DESCRIPTION	NO.	SYMBOL NO.	PART NO.	DESCRIPTION
1	TR703	665-862A	TR, MOTOROLA MDS 9450	7	R701, 702	RD223J09	R, CARBON FILM 22K-J1/4WM
2	TR701, 702	665-884A	TR, MOTOROLA LC1815-Y	8	C701	CE475B01	C, ELECTROLYTIC 4.7MF 10V
3	D701, 702	652-605B	DIODE SWITCH IS2472	9	C702, 703	CE107C01	C, ELECTROLYTIC 100MF 16V
4	D704	652-005A	DIODE RECT IN4001	10	C704	CE476C01	C, ELECTROLYTIC 47MF 16V
5	R705	RD471J09	R, CARBON FILM 470-J1/4WM	11	R706	RD681J09	R, CARBON FILM 680-J1/4WM
6	R703	RD222J09	R, CARBON FILM 2.2K-J1/4WM				

DC REGULATOR PWB AY (511-551A)

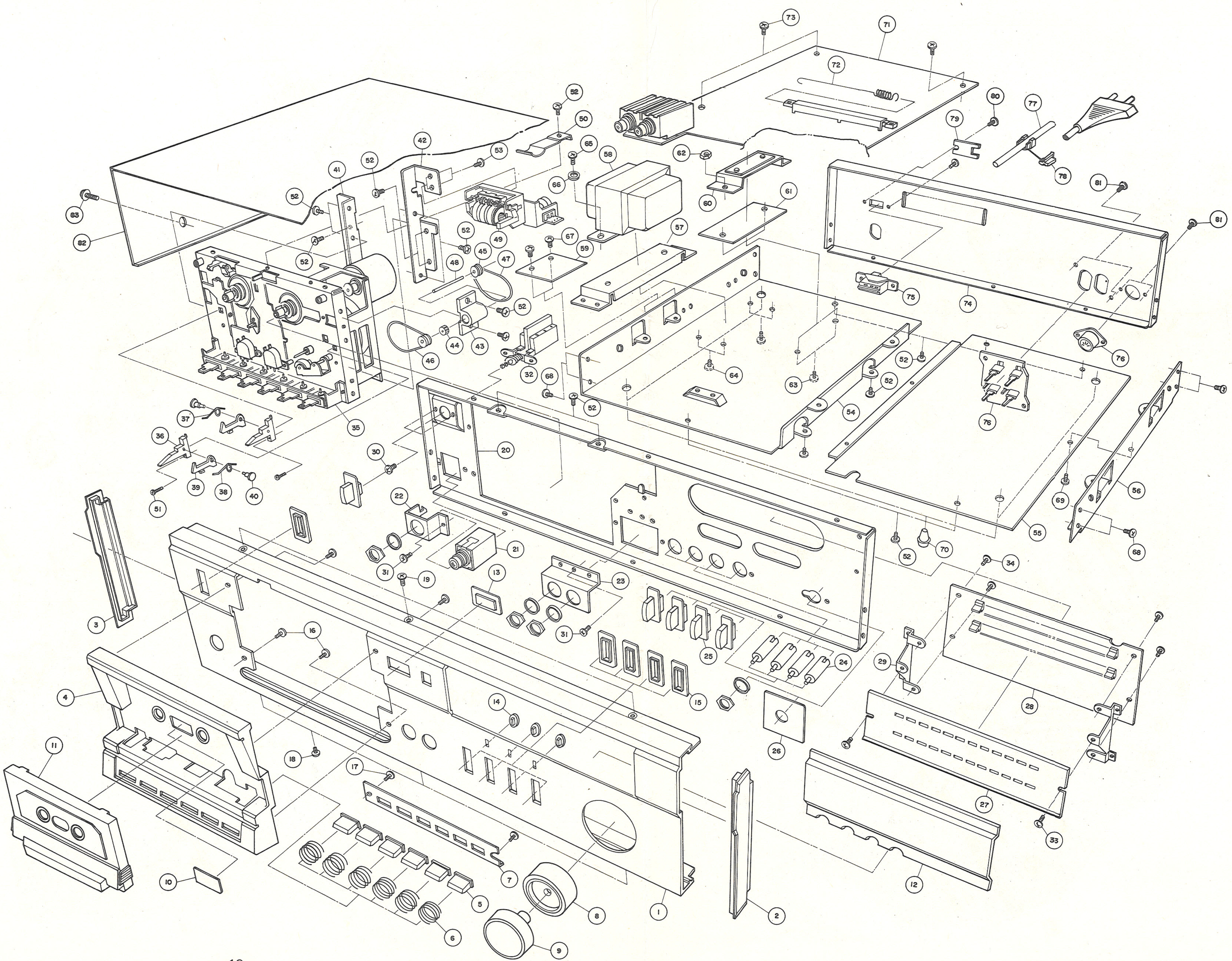
NO.	SYMBOL NO.	PART NO.	DESCRIPTION	NO.	SYMBOL NO.	PART NO.	DESCRIPTION
1	TR801	665-882C	TR, SANKEN 2SC 1827-Y	3	ZD801	654-607B	DIODE ZENER ZPD-13
2	R801	RD122J09	R, CARBON FILM 1-2K-J1/4 WM				

PARTS LIST FOR CABINET EXPLODED VIEW

This parts list does only apply to Gold Star standard. Unless set under service is Gold Star standard, the parts No for printed parts such as front case or front panel, rear case or rear panel etc, and for changable parts according to regional characteristic such as power switch, power trans, 2p socket etc., are subject to change.

NO.	PART NO.	DESCRIPTION
1	258-412B	PANEL, FRONT
2	276-280A	CAP. SIDE-R
3	276-281A	CAP. SIDE-L
4	245-022A	ESCUT, CST
5	273-322A	KNOB, CST PUSH
6	442-634E	SPRING, COIL
7	321-499A	BRACKET, CST KNOB
8	273-632A	KNOB, DOUBLE (A)
9	273-633A	KNOB. DOUBLE (B)
10	256-621C	PLATE, REFLECTION
11	221-422A	COVER, HEAD
12	236-148A	WINDOW, FRONT
13	463-005A	LENS, COUNTER
14	463-006A	LENS, LED
15	384-050A	GUIDE, KNOB, PUSH
16	TRQ1836J	SCREW, TRQ2+3X8
17	TRQ1836J	SCREW, TRQ2 + 3 x 8
18	TRQ1830J	SCREW, TRQ2 + 3 x 6
19	TCQ1830J	SCREW, TCQ2+3x 6
20	313-199A	CHASSIS, FRONT
21	572-602A	JACK, HEADPHONE
22	321-691A	BRACKET, PHONEJACK
23	323-617A	FIXER, MIC JACK
24	423-274A	SHAFT, PUSH KNOB
25	273-309A	KNOB, PUSH
26	221-015A	COVER, DOUBLE KNOB
27	219-609A	HOUSING, LED
28	513-547A	PWB, LED DISPLAY
29	321-502A	BRACKET, PWB
30	MRC1830J	SCREW MRC+3x6
31	TRQ1830J	SCREW TRQ2+3x6
32	554-022C	SWITCH POWER
33	MRC1530I	SCREW MRC+2.6x6
34	MRC1530J	SCREW MRC+2.6x6
35	412-050A	DECK AY CST
36	384-617A	GUIDE, PACK
37	442-209B	SPRING, STOPPER (L)
38	442-209A	SPRING, STOPPER (R)
39	334-050A	STOPPER, PACK
40	341-143A	BUSHING, STOPPER
41	321-501A	BRACKET, CST-L
42	321-500A	BRACKET, CST-R
	324-438A	HOLDER, PULLEY
44	341-142A	BUSHING, PULLEY
45	432-607A	PULLEY, V-BELT
46	451-014A	BELT, COUNTER-A
47	451-014B	BELT, COUNTER-B
48	423-278A	SHAFT, PULLEY
49	517-005A	COUNTER
50	442-210A	SPRING, PACK
51	MRC0930J	SCREW MRC+2X6
52	TRQ1830J	SCREW TRQ2+3x6
53	MRC1822J	SCREW MRC+3x4
54	313-200A	CHASSIS, MAIN
55	313-201A	CHASSIS, BOTTOM
56	315-174A	FRAME, SIDE
57	321-504A	BRACKET, TRANS
58	641-670C	TRANS, POWER (220V)
59	513-546A	PWB, AUTO STOP
60	586-016B	HOLDER AY, FUSE
61	535-011A	INSULATOR, FUSE
62	NHA1800J	NUT, NHA+3
63	MRC1830J	SCREW, MRC+3x6
64	TRQ1830J	SCREW, TRQ2+3x6
65	353N071C	SCREW, SPECIAL B/T
66	WPL2200H	WASHER, PLAIN
67	MRC1830J	SCREW MRC+3x6
68	TRQ1830J	SCREW TRQt+3x6
69	TRQ1830J	SCREW TRQ2+3x6
70	322-139A	SUPPORTER FOOT
71	513-506B	PWB, MAIN
72	442-616A	SPRING, REC
73	353-027H	SCREW, SPECIAL
74	258-413B	PANEL, BACK
75	552-050A	SWITCH, SELECTOR
76	573-039A	SOCKET, DIN, TYPE
76	573-047B	SOCKET, RCA TYPE
77	681-041A	CORD, POWER
78	324-348A	HOLDER, CORD
79	334-007A	STOPPER, SWITCH
80	MRC1830I	SCREW, MRC2+3x6
81	MRC 1522I	SCREW, MRC+2.6x4
82	213-196A	CABINET, TOP
83	353-052B	SCREW, SPECIAL
84	472-033A	FELT, SUPPORTER
85	TBM0936J	SCREW, TBM+2x8

EXPLODED VIEW FOR CABINET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EXPLODED VIEW FOR DECK MECHANISM

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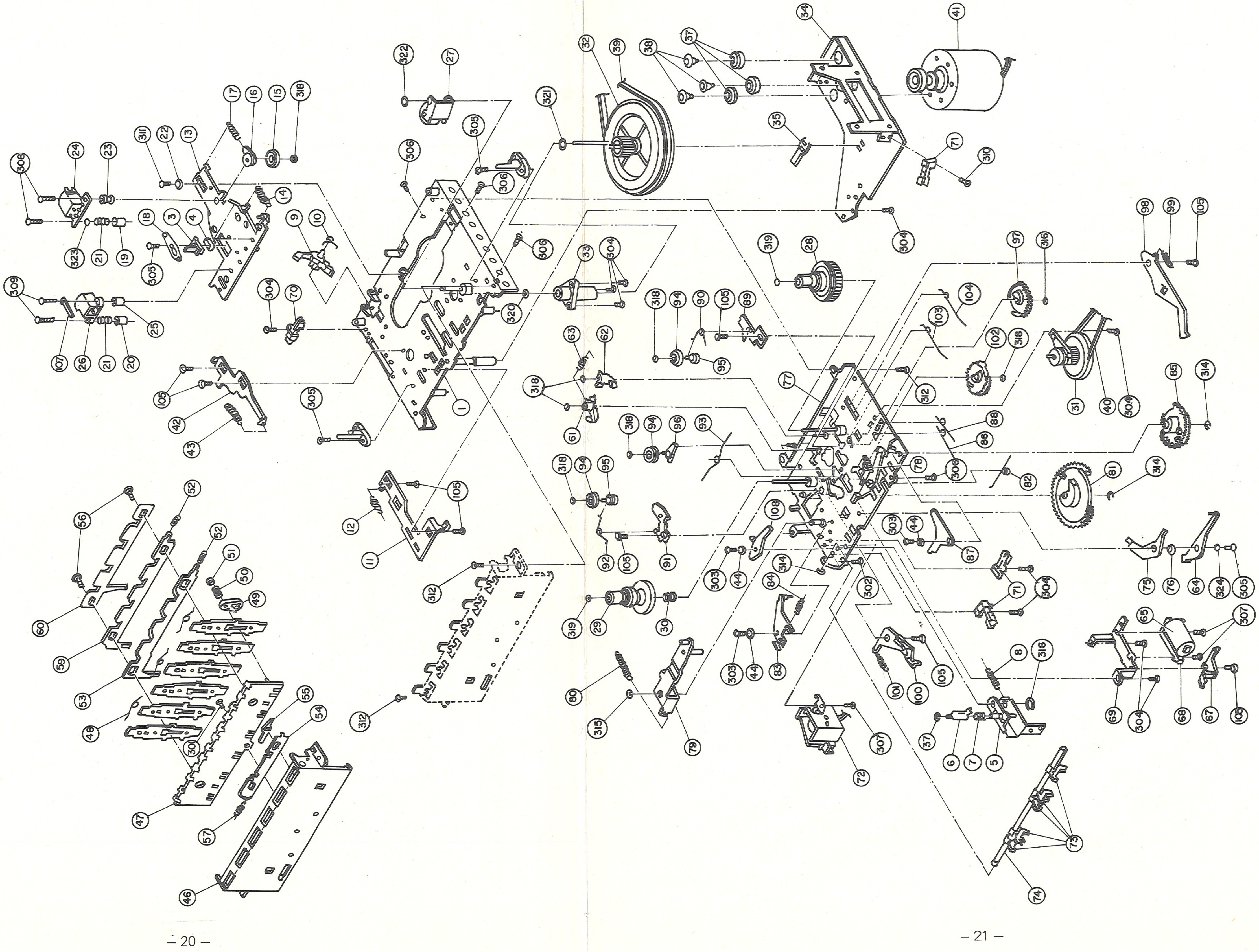
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PARTS LIST FOR DECK MECHANISM

NO.	PART NO.	DESCRIPTION	NO.	PART NO.	DESCRIPTION
1	1715 01 501	CHASSIS ASS'Y	54	1715 20 11	REC STOPPER
3	1710 01 09	GUIDE PIN	55	1715 20 13	REW/FF STOPPER
4	1710 01 10	GUIDE PIN CUSHION	56	1715 20 15	ACTUATOR PLATE STOPPER
5	1715 02 501	REC ARM	57	1510 09 28	REC STOPPER SPRING
6	1715 02 02	SENSING SCREW	58	1715 20 501	PAUSE BUTTON LEVER ASS'Y
7	1715 02 05	SENSING SPRING	59	1715 2007	BUTTON PLATE
8	408 04 13	SPRING	60	1715 20 09	AMS LOCKER PLATE
9	1710 02 01	REC SAFETY LEVER	61	1710 17 301	BRAKE ARM (L) ASS'Y
10	1715 0204	REC SAFETY LEVER SPRING	62	1710 17 302	BRAKE ARM (R) ASS'Y
11	1715 02 01	REC SLIDE LEVER	63	1510 09 28	BRAKE SPRING
	1559 03 06	REC SLIDE LEVER SPRING	64	1715 22 501	SWITCH LEVER ASS'Y
13	1710 03 501	HEAD PANEL ASS'Y	65	1715 22 301	COIL ASS'Y
14	1710 03 06	SPRING	67	1715 22 01	CAP LEVER
15	1710 03 301	TAKE-UP IDLER ASS'Y	68	1710 16 06	YOKE
16	1710 03 302	TAKE-UP IDLER BEARING ASS'Y	69	1715 22 02	SOLENOID B.K.T
17	1710 03 16	SPRING	70	6041 0136	SWITCH
18	1710 03 12	PANEL	71	6041 01 38	SWITCH
19	1710 03 14	AZIMUTH STAND R	72	1715 21 303	AUTO SOLENOID ASS'Y
20	1710 03 17	AZIMUTH STAND L	73	1715 19 01	LEVER
21	940 03 12	HEAD SPRING	74	1715 19 02	LEVER SHAFT
22	1710 03 19	COLLER	75	1715 19 04	REW ARM
23	1710 03 13	R/P HEAD COLLER	76	1715 19 05	REW ARM COLLER
24	HN4249 51	R/P HEAD	77	1715 08 501	SUB CHASSIS ASS'Y
25	1710 0315	ERASE HEAD COLLER	78	1146 07 12	PAUSE ARM SPRING
26	HJ-213260	ERASE HEAD	79	1715 15 501	ARM ASS'Y
27	1710 04 301	PINCH ROLLER ASS'Y	80	408 08 12	LIFT ARM SPRING
28	1710 09 301	T REEL ASS'Y	81	1715 14 06	MAIN GEAR
29	1710 09 302	S REEL ASS'Y	82	1715 14 05	SPRING
30	1327 02 01	BACK TENSION SPRING	83	1715 14 501	MAIN TRIGGER ARM ASS'Y
	1710 10 301	REW/FF CLUTCH ASS'Y	84	1510 09 21	SPRING
32	1710 05 301	FLYWHEEL CAPSTAN ASS'Y	85	1710 14 05	PLAY GEAR
33	1710 05 02	FLY WHEEL METAL	86	1715 14 09	SPRING
34	1710 05 06	FLY WHEEL PLATE	87	1715 14 502	PLAY GEAR TRIGGER ARM ASS'Y
35	1710 05 04	FLY WHEEL THRUST BEARING	88	1715 14 07	SPRING
37	1520 13 04	MOTOR RUBBER	89	1710 11 501	FF PLATE ASS'Y
38	1200 12 01	COLLER SCREW (S)	90	1710 11 06	SPRING
39	1240 09 05 B	MAIN BELT	91	1710 11 502	REW PLATE ASS'Y
40	1710 06 03	REW/FF BELT	92	1710 11 10	SPRING
41	1715 06 303	MOTOR ASS'Y	93	1710 11 11	SPRING
42	1715 23 03	EJECT STOPPER	94	1710 11 301	FF IDLER ASS'Y
43	1715 23 05	EJECT STOPPER SPRING	95	1710 11 302	IDLER BEARING ASS'Y
44	1710 11 03	COLLER	96	1710 11 303	CENTER IDLER ARM ASS'Y
45	1715 20 502	BUTTON LEVER ASS'y	97	1710 12 01	F.F GEAR
46	1715 20 503	FRAME ASS'Y	98	1715 12 501	F.F TRIGGER ARM ASS'Y
47	1715 20 02	BUTTON BASE	99	174 06 09	SPRING
48	1715 20 05	BUTTON, LEVER SPRING	100	1715 12 502	REW TRIGGER ARM ASS'Y
49	1222 17 02	PAUSE LEVER	101	750 14 10	SPRING
50	1715 20 06	PAUSE LEVER SPRING	102	1710 12 04	REW GEAR
51	1700 90 35	PAUSE STOPPER	103	1715 12 04	SPRING
52	1715 20 14	SPRING	104	1715 12 02	SPRING
53	1715 20 10	SWITCH ACTUATOR PLATE	105	1700 12 02	COLLER SCREW

NO.	PART NO.	DESCRIPTION	NO.	PART NO.	DESCRIPTION
107	1114 03 02	CORD CLAMP	314	9502 00 00	E RING S 2.0
108	1715 1402	MAIN TRGGER 1715 14 02	315	9503 00 00	E RING S 2.3
301	9115 00 00	SCREW 2x3	316	9505 00 00	E RING S 3.0
302	9116 00 00	SCREW 2x4	317	9500 00 00	E RING S 1.5
303	9180 00 00	TAPPING SCREW 2x4	318	9420 00 00	WASHER 1.2x3x0.25
304	9181 00 00	TAPPING SCREW 2x5	319	9419 00 00	WASHER 1.6x3.8x0.3
306	9077 00 00	SCREW 2x4	320	9370 00 00	WASHER 2x5x0.2
307	9078 00 00	SCREW 2x5	321	9376 00 00	WASHER 2.5x6x0.3
308	9008 00 00	SCREW 2x10	322	9732 00 00	WASHER 2.1x5x0.4
309	9009 00 00	SCREW 2x11	323	9302 00 00	WASHER 2.1x5.5x0.4
310	9003 00 00	SCREW 2x5	324	9314 00 00	WASHER 2x8x0.5
311	9227 00 00	SCREW 2.6x6			